

## **Vita of Jian-Wen Bao, PhD**

### **EDUCATION**

Ph.D., Meteorology, The Pennsylvania State University, 1993

M.S., Meteorology, The Pennsylvania State University, 1990

B.S., Meteorology, Lanzhou University, China, 1983

### **PROFESSIONAL APPOINTMENTS**

2000-present	Meteorologist, OAR/Environmental Technology Laboratory, National Oceanic and Atmospheric Administration
1997-1999	Research Scientist II, CIRES, University of Colorado/National Oceanic and Atmospheric Administration
1994-1997	Faculty Research Associate, CIRES, University of Colorado/National Oceanic and Atmospheric Administration
1993-1994	Postdoctoral Fellow of the Advanced Study Program, The National Center for Atmospheric Research
1990-1993	Ph.D. Candidate, Department of Meteorology, The Pennsylvania State University
1990-1991	Visiting Student Scientist, National Severe Storms Laboratory, Norman, Oklahoma
1988-1990	Research Assistant, Department of Meteorology, The Pennsylvania State University
1986-1988	Research Assistant, Mesoscale and Microscale Meteorology Division, National Center for Atmospheric Research, Boulder, Colorado
1983-1986	Teaching Assistant, Department of Meteorology, Lanzhou University, China

### **RESEARCH EXPERIENCE**

Air-Sea Coupled Modeling, Air-Sea Surface Flux Parameterization, Land-Surface Modeling, Air-Quality Forecast/Modeling, Mesoscale Modeling, Mesoscale Data Assimilation, Numerical Model Forecast Validation and Evaluation

### **RECENT AND RELEVANT PUBLICATIONS**

- Bao, J.-W., S. A. Michelson, J. M. Wilczak and C. W. Fairall, 2002: Storm simulations using a regional coupled atmosphere-ocean-modeling system. *Advances in Fluid Mechanics (Atmosphere-Ocean Interactions)*, Ed. W. Perrie, WPI Press, Boston, p. 115-153.
- Bao, J.-W., S. A. Michelson, and J. M. Wilczak: 2002: Sensitivity of numerical simulations to parameterizations of roughness for surface heat fluxes at high winds over the sea. *Mon. Wea. Rev.*, **130**, 1926-1932.
- Bao, J.-W., J. M. Wilczak, J.-K. Choi, and L. Kantha, 2000: Numerical simulations of air-sea interaction under high wind conditions using a coupled Model: A study of hurricane development. *Mon. Wea. Rev.*, **128**, 2190-2210
- Keprt, J.D., C.W. Fairall, and J.-W. Bao, 1999: Modeling the interaction between the atmospheric boundary layer and evaporating sea spray droplets. *Air-Sea Fluxes: Momentum, Heat, and Mass Exchange*, G.L. Geernaert, Editor, Kluwer, Dordrecht, p. 363-409.